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| Form PTO-1449 (Modified)<br><br><b>INFORMATION DISCLOSURE<br/>CITATION IN AN APPLICATION</b> | Application No.      | 10/008,463                     |
|  | Filing Date          | November 9, 2001               |
|  | First Named Inventor | Neff, et al.                   |
|  | Group Art Unit       | 2633                           |
|  | Examiner Name        | Dalzd E. Singh                 |
| Sheet 1 of 10  |                      | Attorney Docket No. 71703/7293 |

| U.S. PATENT DOCUMENTS |          |  |                              |                            |                                     |   |       |           |                             |
|-----------------------|----------|--|------------------------------|----------------------------|-------------------------------------|---|-------|-----------|-----------------------------|
| EXAMINER<br>INITIALS* | CITE NO. | COPY NOT<br>ENCLOSED<br>PER 37 CFR §<br>1.98(a)(2)(ii) | U.S. PATENT<br>DOCUMENT      |                            | NAME OF<br>INVENTOR OR<br>APPLICANT | DATE OF<br>ISSUANCE OR<br>PUBLICATION<br>(MM-DD-YYYY) | CLASS | SUB CLASS | FILING DATE<br>(MM-DD-YYYY) |
|                       |          |  | PATENT, PUB.,<br>OR APP. NO. | KIND<br>CODE<br>(if known) |                                     |   |       |           |                             |
| DS                    | AA       | x  | 09/823,175                   |                            | Willebrand et al.                   | 03-15-2005  |       |           |                             |
|                       | AB       | x  | 3488586                      |                            | Watrous et al.                      | 01-06-1970  |       |           |                             |
|                       | AC       | x  | 3967899                      |                            | O'Meara                             | 07-06-1976  |       |           |                             |
|                       | AD       | x  | 4060769                      |                            | Mallozzi et al.                     | 11-29-1977  |       |           |                             |
|                       | AE       | x  | 4330870                      |                            | Arends                              | 05-18-1982  |       |           |                             |
|                       | AF       | x  | 4428647                      |                            | Sprague et al.                      | 01-31-1984  |       |           |                             |
|                       | AG       | x  | 4630254                      |                            | Tseng                               | 12-16-1986  |       |           |                             |
|                       | AH       | x  | 4639586                      |                            | Fender et al.                       | 01-27-1987  |       |           |                             |
|                       | AI       | x  | 4689482                      |                            | Horikawa et al.                     | 08-25-1987  |       |           |                             |
|                       | AJ       | x  | 4717913                      |                            | Elger                               | 01-05-1988  |       |           |                             |
|                       | AK       | x  | 4757268                      |                            | Abrams et al.                       | 07-12-1988  |       |           |                             |
|                       | AL       | x  | 4761059                      |                            | Yeh et al.                          | 08-02-1988  |       |           |                             |
|                       | AM       | x  | 4773063                      |                            | Hunsperger                          | 09-20-1988  |       |           |                             |
|                       | AN       | x  | 4794345                      |                            | Linford et al.                      | 12-27-1988  |       |           |                             |
|                       | AO       | x  | 4807222                      |                            | Amitay                              | 02-21-1989  |       |           |                             |
|                       | AP       | x  | 4823357                      |                            | Casey                               | 04-18-1989  |       |           |                             |
|                       | AQ       | x  | 4826269                      |                            | Streifer et al.                     | 05-02-1989  |       |           |                             |
|                       | AR       | x  | 4904993                      |                            | Sato                                | 02-27-1990  |       |           |                             |
|                       | AS       | x  | 4916460                      |                            | Powell                              | 04-10-1990  |       |           |                             |
| DS                    | AT       | x  | 4922502                      |                            | Unterraher et al.                   | 05-01-1990  |       |           |                             |

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|                       |          |   | PATENT, PUB., OR APP. NO. | KIND CODE (if known) |                               |  |       |           |                          |
| DS                    | AU       | x   | 4932775                   |                      | Wissman et al.                | 06-12-1990                                   |       |           |                          |
|                       | AV       | x   | 4975926                   |                      | Knapp                         | 12-04-1990                                   |       |           |                          |
|                       | AW       | x   | 5005937                   |                      | Aida et al.                   | 04-09-1991                                   |       |           |                          |
|                       | AX       | x   | 5019768                   |                      | Criswell et al.               | 05-28-1991                                   |       |           |                          |
|                       | AY       | x   | 5034997                   |                      | Iwasaki                       | 07-23-1991                                   |       |           |                          |
|                       | AZ       | x   | 5068916                   |                      | Harrison et al.               | 11-26-1991                                   |       |           |                          |
|                       | BA       | x   | 5083874                   |                      | Aida et al.                   | 01-28-1992                                   |       |           |                          |
|                       | BB       | x   | 5142400                   |                      | Solinsky                      | 08-25-1992                                   |       |           |                          |
|                       | BC       | x   | 5185758                   |                      | Fan et al.                    | 02-09-1993                                   |       |           |                          |
|                       | BD       | x   | 5185814                   |                      | Healey                        | 02-09-1993                                   |       |           |                          |
|                       | BE       | x   | 5200631                   |                      | Austin et al.                 | 04-06-1993                                   |       |           |                          |
|                       | BF       | x   | 5210631                   |                      | Huber et al.                  | 05-11-1993                                   |       |           |                          |
|                       | BG       | x   | 5218356                   |                      | Knapp                         | 06-08-1993                                   |       |           |                          |
|                       | BH       | x   | 5218467                   |                      | Ross et al.                   | 06-08-1993                                   |       |           |                          |
|                       | BI       | x   | 5221983                   |                      | Wagner                        | 06-22-1993                                   |       |           |                          |
|                       | BJ       | x   | 5223781                   |                      | Criswell et al.               | 06-29-93                                     |       |           |                          |
|                       | BK       | x   | 5227906                   |                      | Tokumitsu                     | 07-13-1993                                   |       |           |                          |
|                       | BL       | x   | 5247381                   |                      | Olmstead et al.               | 09-21-1993                                   |       |           |                          |
|                       | BM       | x   | 5267010                   |                      | Kremer et al.                 | 11-30-1993                                   |       |           |                          |
|                       | BN       | x   | 5280184                   |                      | Jokerst, et al.               | 01-18-1994                                   |       |           |                          |
| DS                    | BO       | x   | 5301054                   |                      | Huber et al.                  | 04-05-1994                                   |       |           |                          |

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|                       |          |   | PATENT, PUB., OR APP. NO. | KIND CODE (if known) |                               |  |       |           |                          |
| DS                    | BP       | x   | 5311535                   |                      | Karpinski                     | 05-10-1994                                   |       |           |                          |
|                       | BQ       | x   | 5321718                   |                      | Waarts, et al.                | 06-14-1994                                   |       |           |                          |
|                       | BR       | x   | 5329576                   |                      | Handforth                     | 07-12-1994                                   |       |           |                          |
|                       | BS       | x   | 5331449                   |                      | Huber et al.                  | 07-19-1994                                   |       |           |                          |
|                       | BT       | x   | 5353294                   |                      | Shigeno                       | 10-04-1994                                   |       |           |                          |
|                       | BU       | x   | 5359446                   |                      | Johnson et al.                | 10-25-1994                                   |       |           |                          |
|                       | BV       | x   | 5371734                   |                      | Fischer                       | 12-06-1994                                   |       |           |                          |
|                       | BW       | x   | 5377219                   |                      | Geiger                        | 12-27-1994                                   |       |           |                          |
|                       | BX       | x   | 5384652                   |                      | Allen et al.                  | 01-24-1995                                   |       |           |                          |
|                       | BY       | x   | 5394489                   |                      | Koch                          | 02-28-1995                                   |       |           |                          |
|                       | BZ       | x   | 5400166                   |                      | Huber                         | 03-21-1995                                   |       |           |                          |
|                       | CA       | x   | 5410147                   |                      | Riza et al.                   | 04-25-1995                                   |       |           |                          |
|                       | CB       | x   | 5416861                   |                      | Koh, et al.                   | 05-16-1995                                   |       |           |                          |
|                       | CC       | x   | 5416864                   |                      | Cassidy et al.                | 05-16-1995                                   |       |           |                          |
|                       | CD       | x   | 5443227                   |                      | Hsu                           | 08-22-1995                                   |       |           |                          |
|                       | CE       | x   | 5452124                   |                      | Baker                         | 09-19-1995                                   |       |           |                          |
|                       | CF       | x   | 5457561                   |                      | Taneya et al.                 | 10-10-1995                                   |       |           |                          |
|                       | CG       | x   | 5457562                   |                      | Tremblay                      | 10-10-1995                                   |       |           |                          |
|                       | CH       | x   | 5465170                   |                      | Arimoto                       | 11-07-1995                                   |       |           |                          |
|                       | CI       | x   | 5475520                   |                      | Wissinger                     | 12-12-1995                                   |       |           |                          |
| DS                    | CJ       | x   | 5949563                   |                      | Takada                        | 09-07-1999                                   |       |           |                          |

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| DS                    | CK       | x  | 5949564                      |                            | Wake                                | 09-07-1999  |       |           |                             |
|                       | CL       | x  | 5966229                      |                            | Dodley et al.                       | 10-12-1999  |       |           |                             |
|                       | CM       | x  | 5978118                      |                            | Flaherty                            | 11-02-1999  |       |           |                             |
|                       | CN       | x  | 5983068                      |                            | Tomich et al.                       | 11-09-1999  |       |           |                             |
|                       | CO       | x  | 5995253                      |                            | Flaherty                            | 11-30-1999  |       |           |                             |
|                       | CP       | x  | 6014236                      |                            | Flaherty                            | 01-11-2000  |       |           |                             |
|                       | CQ       | x  | 6016212                      |                            | Durant et al.                       | 01-18-2000  |       |           |                             |
|                       | CR       | x  | 6043918                      |                            | Bozzay et al.                       | 03-28-2000  |       |           |                             |
|                       | CS       | x  | 6049593                      |                            | Acampora                            | 04-11-2000  |       |           |                             |
|                       | CT       | x  | 6104513                      |                            | Bloom                               | 08-15-2000  |       |           |                             |
|                       | CU       | x  | 6115157                      |                            | Barnard, et al.                     | 09-05-2000  |       |           |                             |
|                       | CV       | x  | 6122084                      |                            | Britz et al.                        | 09-19-2000  |       |           |                             |
|                       | CW       | x  | 6141128                      |                            | Korevaar, et al.                    | 10-31-2000  |       |           |                             |
|                       | CX       | x  | 6219363                      |                            | Fix et al.                          | 04-17-2001  |       |           |                             |
|                       | CY       | x  | 6259552                      |                            | Botti et al.                        | 07-10-2001  |       |           |                             |
|                       | CZ       | x  | 6268944                      |                            | Szapiel                             | 07-31-2001  |       |           |                             |
|                       | DA       | x  | 6272271                      |                            | Wojnarowski,<br>et al.              | 08-07-2001  |       |           |                             |
|                       | DB       | x  | 6285481                      |                            | Palmer                              | 09-04-2001  |       |           |                             |
|                       | DC       | x  | 6288813                      |                            | Kirkpatrick, et<br>al.              | 09-11-2001  |       |           |                             |
| DS                    | DD       | x  | 6301037                      |                            | Fischer, et al.                     | 10-09-2001  |       |           |                             |

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| DS                    | DE       | x   | 6323980                   |                      | Bloom                         | 11-27-2001                                   |       |           |                          |
|                       | DF       | x   | 6330104                   |                      | Kim et al.                    | 12-11-2001                                   |       |           |                          |
|                       | DG       | x   | 6347174                   |                      | Onishi et al.                 | 02-12-2002                                   |       |           |                          |
|                       | DH       | x   | 6348986                   |                      | Doucet, et al.                | 02-19-2002                                   |       |           |                          |
|                       | DI       | x   | 6396612                   |                      | Bjorndahl                     | 05-28-2002                                   |       |           |                          |
|                       | DJ       | x   | 6398425                   |                      | Williams, et al.              | 06-04-2002                                   |       |           |                          |
|                       | DK       | x   | 6411414                   |                      | Abate, et al.                 | 06-25-2002                                   |       |           |                          |
|                       | DL       | x   | 6452700                   |                      | Mays, Jr.                     | 09-17-2002                                   |       |           |                          |
|                       | DM       | x   | 6462847                   |                      | Willebrand                    | 10-08-2002                                   |       |           |                          |
|                       | DN       | x   | 6493121                   |                      | Althaus                       | 12-10-2002                                   |       |           |                          |
|                       | DO       | x   | 6509992                   |                      | Goodwill                      | 01-21-2003                                   |       |           |                          |
|                       | DP       | x   | 6532087                   |                      | Ransford et al.               | 03-11-2003                                   |       |           |                          |
|                       | DQ       | x   | 6583904                   |                      | Mahlab et al.                 | 06-24-2003                                   |       |           |                          |
|                       | DR       | x   | 6798795                   |                      | Yoo                           | 09-28-2004                                   |       |           |                          |
|                       | DS       | x   | 09/482,782                |                      | Willebrand et al.             | 07-13-2004                                   |       |           |                          |
|                       | DT       | x   | 09/849,613                |                      | Willebrand et al.             | 03-15-2005                                   |       |           |                          |
|                       | DU       | x   | 2002/0005972              |                      | Bloom, et al.                 | 01-17-2002                                   |       |           |                          |
|                       | DV       | x   | 2002/0012139              |                      | Willebrand, et al.            | 01-31-2002                                   |       |           |                          |
| DS                    | DW       | x   | 2002/0048066              |                      | Antoniados et al.             | 04-25-2002                                   |       |           |                          |

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| DS                    | DX       | x   | 2002/0051269              |                      | Margalit et al.               | 05-02-2002                                   |       |           |                          |
|                       | DY       | x   | 2002/0054411              |                      | Heminger et al.               | 05-09-2002                                   |       |           |                          |
|                       | DZ       | x   | 2002/0054413              |                      | Shivnan                       | 05-09-2002                                   |       |           |                          |
|                       | EA       | x   | 2002/0075542              |                      | Kumar et al.                  | 06-20-2002                                   |       |           |                          |
|                       | EB       | x   | 2002/0122230              |                      | Izadpanah, et al.             | 09-05-2002                                   |       |           |                          |
|                       | EC       | x   | 2002/0122232              |                      | Doucet, et al.                | 09-05-2002                                   |       |           |                          |
|                       | ED       | x   | 2002/0141020              |                      | Doucet, et al.                | 10-03-2002                                   |       |           |                          |
|                       | EE       | x   | 2002/0149811              |                      | Willebrand                    | 05-03-2005                                   |       |           |                          |
|                       | EF       | x   | 2002/0167697              |                      | Willebrand                    | 11-14-2002                                   |       |           |                          |
|                       | EG       | x   | 2002/0171896              |                      | Clark, et al.                 | 11-21-2002                                   |       |           |                          |
| DS                    | EH       | x   | RE35736                   |                      | Powell                        | 02-24-1998                                   |       |           |                          |

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|                          |          |  | COUNTRY OR OFFICE (two-letter code) | DOCUMENT NO. | KIND CODE (if known) |                                  |       |           | YES         | NO |
| DS                       | EI       |  | GB                                  | 2 228 385    | A                    | 8/22/1990                        |       |           | X           |    |
|                          | EJ       |  | DE                                  | 4433896      | C                    | 9/11/1995                        |       |           | X           |    |
|                          | EK       |  | EP                                  | 0 378 148    | B1                   | 4/10/1996                        |       |           | X           |    |
|                          | EL       |  | EP                                  | 0 513 993    | A2                   | 11/19/1992                       |       |           | X           |    |
| DS                       | EM       |  | GB                                  | 2 221 810    | A                    | 2/14/1990                        |       |           | X           |    |

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| DS                       | EN       |  | GB                                  | 2 257 321    | A                    | 1/6/1993                         |       |           | X           |    |
|                          | EO       |  | JP                                  | S63-215125   |                      | 7/7/1988                         |       |           | X           |    |
|                          | EP       |  | WO                                  | 00/08783     |                      | 2/17/2000                        |       |           | X           |    |
|                          | EQ       |  | WO                                  | 01/52450     | A2                   | 7/19/2001                        |       |           | X           |    |
| DS                       | ER       |  | WO                                  | 98/32250     |                      | 7/23/1998                        |       |           | X           |    |

| OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS |          |  |   |
|--|----------|--|---|
| EXAMINER INITIALS*                                 | CITE NO. | COPY NOT ENCLOSED PER 37 CFR § 1.98(d) | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |
| DS   | ES       |  | A. BELMONTE, et al.; "Performance of a Multiple-Aperture Optical System"; Society of Photo-Optical Instrumentation Engineers, vol. 2699; 1996; pp. 316-326.   |
|  | ET       |  | A. LOURI et al.; "Feasibility Study for a Scalable Optical Interconnection Network for Massively Parallel Processing Systems"; Applied Optics, Vol. 35, No. 8; pp. 1296-1308 (March 10, 1996).  |
|  | EU       |  | A. S. ACAMPORA; "A Multichannel Multihop Local Lightwave Network"; GLOBECOM '87; IEEE; pp. 1459-1467, (1987).   |
|  | EV       |  | A. S. ACAMPORA; "The Scalable Lightwave Network"; IEEE Communications Magazine; pp. 36-42 (December 1994).  |
|  | EW       |  | C. BRACKETT et al.; "A Scalable Multiwavelength Multihop Optical Network: A Proposal for Research on All-Optical Networks"; Journal of Lightwave Technology, Vol. 11, No. 5/6; pp. 736-753, (May/June 1993).  |
|  | EX       |  | C. M. STICKLEY et al.; Demonstration of an Adaptive, Coherent-Combining Laser Radar Receiver; 18.sup.th International Laser Radar Conference; 1996; pp. 247-250.  |
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|  | Filing Date          | November 9, 2001               |
|  | First Named Inventor | Neff, et al.                   |
|  | Group Art Unit       | 2633                           |
|  | Examiner Name        | Dalzid E. Singh                |
| Sheet 8 of 10  |                      | Attorney Docket No. 71703/7293 |

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| DS  | GB       |  | PCT International Preliminary Examining Authority; "Notification of Transmittal of the International Preliminary Examination Report"; "PCT International Preliminary Examination Report" for International Application No. PCT/US01/14547 which corresponds to U.S. Appl. No. 09/849,613; mailed Dec. 5, 2003; (6 pages). |
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